

# **LArIAT Weekly Meeting**

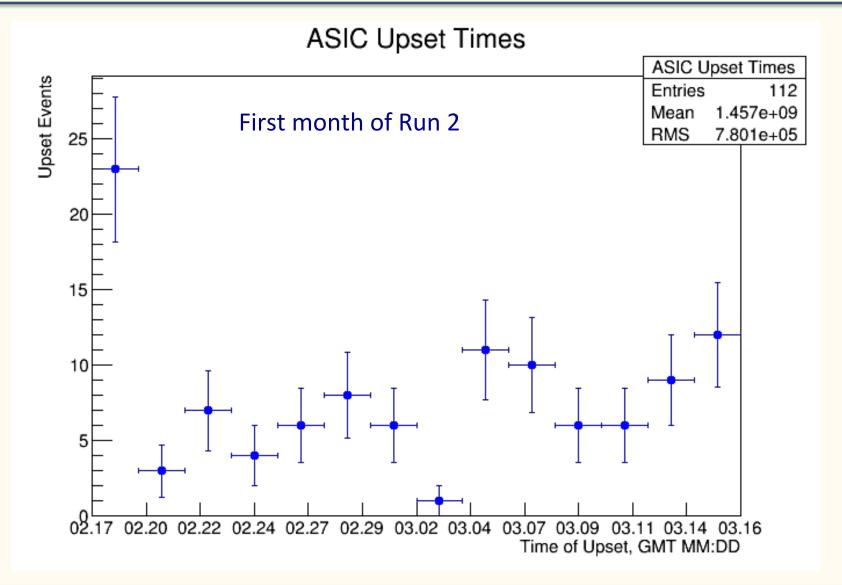
### **Recent DAQtivities**

William Badgett
Fermilab

Neutrino Division

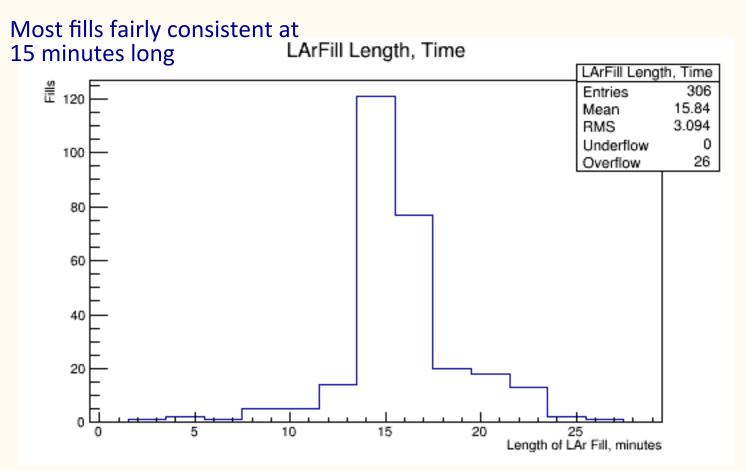


# ASIC Upsets history Run 2





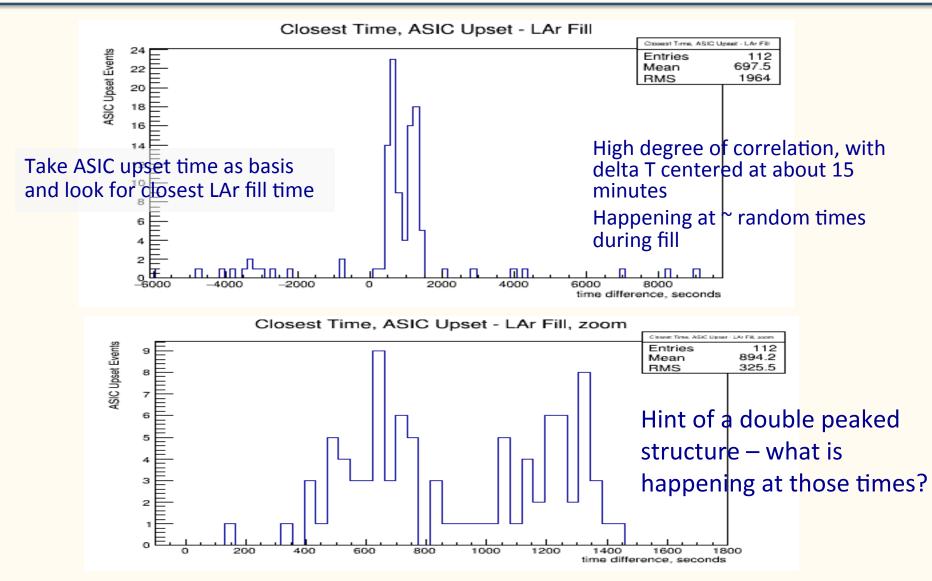
#### **LAr Fill Times**



Outliers were mostly early on



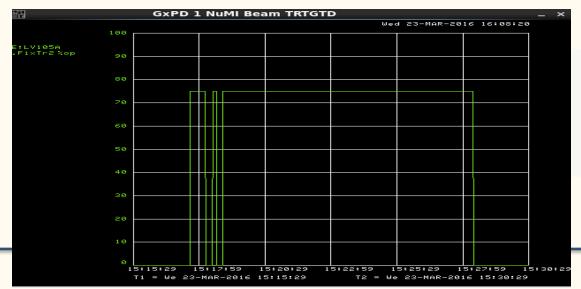
## LAr Fills vs. ASIC Upsets





## ASIC Upsets 'n' LAr Fills

- ASIC corruption highly correlated with LAr fills
- How do we wish to proceed?
  - More RF noise investigations?
  - Ask Cryo for help?
  - Gnashing of teeth? Hemming and hawing?
  - How much does this hurt us, really?
- We will be adding an ASIC corruption indicator to the database soon so users can be wary of the data



LAr Fill Valve opening and closing at beginning of fill, even after March 16 fix. (Should be OK)



### Incomplete Samples Issue

Every few hours, the CAEN digitizers fail to return the full 3072 number of samples, typically ~100 samples fewer. Not clear why.

To protect the data from possible corruption, missing samples are now padded with 0xFFFF values, effect clear in event displays.

(Real ADC values are 12 bit, so this is not a legal value)

